

NAVSEA
STANDARD ITEM

FY-04

ITEM NO: 009-24
DATE: 30 AUG 2002
CATEGORY: I

1. SCOPE:

1.1 Title: Isolation, Blanking, and Tagging Requirements; accomplish

2. REFERENCES:

2.1 Standard Items

2.2 S0400-AD-URM-010/TUM, Tag-Out Users Manual

2.3 845-4612172, Hydrostatic Test Blanks

2.4 MIL-STD-777, Schedule of Piping, Valves, Fittings, and Associated Piping Components for Naval Surface Ships

2.5 802-5959353, MIL-STD-777 Modified for DDG-51 Class, Schedule of Piping, Valves, Fittings, and Associated Piping Components

3. REQUIREMENTS:

3.1 Notify the Commanding Officer's designated representative in writing of equipment, systems, circuits, components, piping, and valves that require isolation to accomplish work in the Work Item before any work is started on each individual Work Item so that tag-outs can be accomplished as required by ship's instructions, accomplishing the requirements of 2.2.

3.1.1 Position equipment to achieve required isolation, deenergization, and depressurization, and install tags when tag-out of equipment, systems, circuits, components, piping, or valves is required on unmanned craft and barges.

3.2 Verify use of sufficient tags to prevent operation of equipment, systems, circuits, components, piping, or valves from all stations that could exercise control.

3.2.1 Ensure the isolation, deenergization, and depressurization of mechanical, electrical, electronics, and pressure systems has been accomplished.

3.2.2 A contractor's designated representative shall legibly sign on a ship's tag-out record sheet and tags after installation, indicating repair activity satisfaction with the completeness, **accuracy, and adequacy** of the tag-out and alerting personnel removing tags that contractor concurrence is required.

3.2.3 Train and qualify contractor's designated representative in accordance with 2.2.

3.2.3.1 Submit one legible copy of **the** program to be utilized to train **and qualify** contractor's designated representatives in accordance with 2.2 to the SUPERVISOR.

3.3 Post warning signs and barriers and install temporary positive means to prevent closure or movement of components that create a safety hazard at hull and deck openings.

3.4 Install and maintain blanks and plugs, painted blaze orange, on piping, valves, equipment, ventilation systems, on components being stored, installed, or removed, on openings aboard ship resulting from the removals, immediately upon each removal, and on openings requiring isolation to accomplish work in the Work Items **including tanks**. The use of cloth, polyvinyl sheet, paper, tape, **rubber sheeting, wood, or wood products** as blanks, and the use of DC plugs on pressurized systems, is prohibited. **DC plugs may be used on non-pressurized openings.**

3.4.1 Blanks installed on equipment, valves, and piping openings in systems which are subject to pressure shall be in accordance with 2.3 to withstand maximum system pressure and secured in place with gaskets and fasteners in accordance with 2.4 and 2.5.

3.4.1.1 Pressure blanks shall have a positive means of attachment for affixing tags.

3.4.2 Blanks/plugs installed on openings in equipment, valves, and piping systems not subject to pressure shall preclude entry of foreign material and protect flanges and threaded areas.

3.4.3 Remove blanks/plugs installed in 3.4 immediately prior to installing piping, valves, or equipment and when work requiring isolation is complete.

3.4.4 Accomplish the requirements of 009-77 of 2.1 for installation of cofferdam over hull openings/penetrations prior to removing or installing equipment, valves, or piping when the contractor elects and is authorized to accomplish work which results in a loss of two-valve protection.

3.4.5 Provide and maintain a written record of temporary blanks/plugs used, **documented on** a signed **and dated** check-off sheet verifying

installation and removal. Include system/equipment name **or tank number** and location (frame, port, starboard, below or above water line).

3.4.5.1 Maintain the list for the duration of the availability.

3.4.5.2 Submit one legible copy, in hard copy or electronic media, of the temporary blank/plug record and check-off sheet to the SUPERVISOR. For tanks, this submittal must take place prior to final closing and shall be at the job site.

3.4.6 Piping, ventilation, and equipment components designated as scrap prior to removal do not need to be blanked to maintain cleanliness. However, precautions shall be taken to preclude spillage of system contents.

3.5 Install identification tags on each removed piping section, valve, ventilation system, and equipment indicating the location, system, ship's name and hull number, and Work Item number prior to removal from system. Tags must endure repair process.

3.6 Tape and insulate cable ends disconnected from equipment to prevent shorting out or grounding in the event a system is accidentally energized.

3.6.1 Tag each cable indicating circuit number and location of panel and fuse box energizing cable.

3.6.2 Install dust covers on equipment connectors following disconnection of cable plugs.

3.7 Do not disturb, modify, remove, energize, or operate any switch, fitting, valve, or other equipment affixed with a ship's isolation or DANGER tag.

3.7.1 Do not remove or relocate ship's isolation or DANGER tags.

3.7.2 Verify removal and clearance of all isolation or DANGER tags in accordance with ship's instruction before the equipment is operationally tested or operated.

3.8 Notify the Commanding Officer's designated representative immediately when the contractor's work is complete and the system, piping, or circuit is ready for activation to accomplish removal of tags.

3.8.1 The contractor's representative shall sign the ship's tag-out log sheet to show concurrence in tag removal and clearance before removal.

3.8.2 Ship's Force personnel will remove tags after contractor's concurrence and clearance has been recorded and removal is authorized by the Commanding Officer's designated representative.

3.8.3 Accomplish the requirements of 3.8.2 for unmanned craft and barges.

4. NOTES:

4.1 When a component is tagged more than once, a DANGER tag takes precedence over other tags.

4.2 The SUPERVISOR will be the **Authorizing Officer** for unmanned craft and barges.

4.3 The term "Shipyard(s)" as used in 2.2 means a public Naval Shipyard or a NAVSEA 04XQ approved new construction shipyard.

4.4 The term "RA" as referred to in 2.2 is the contractor awarded the Job Order.

4.5 Ship's Force personnel will position equipment to achieve required isolation, deenergization, and depressurization, and install tags when tag-out of equipment, systems, circuits, components, piping, or valves is required.

4.6 Where use of the Shift Operations Management System (SOMS) is required by ship's instruction, a Local Standard Item shall be invoked in the Job Order.